Antenna HP 20-100 D

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General Specifications

Diameter	2.0 m
Standard Colour	RAL 7030
Shroud	Standard profile
Antenna Input	Interface for IEC waveguide R 100
Polarization	Dual

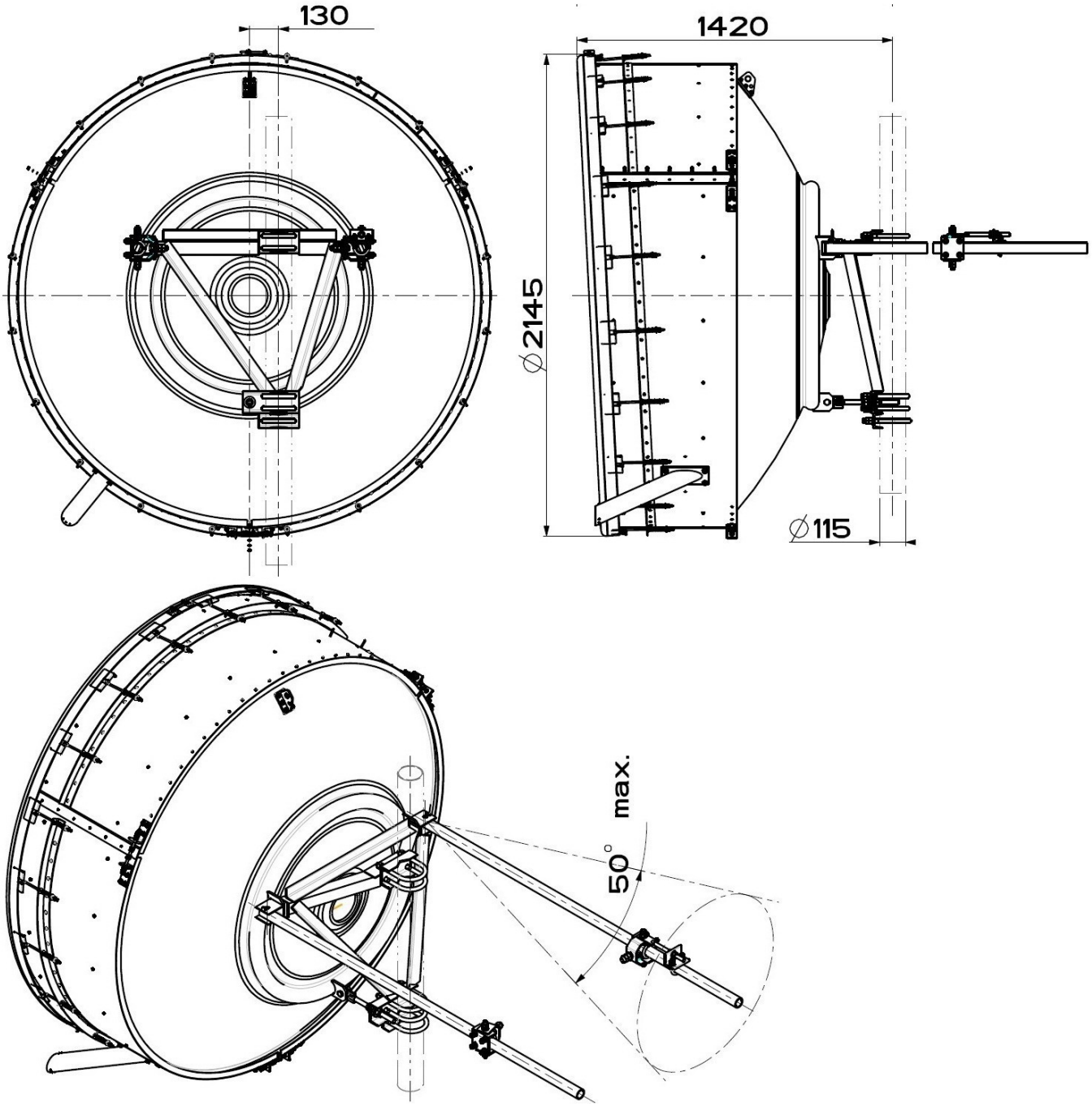
Mechanical Characteristics

Pole	115 mm
Elevation-fine adjustment	±5°
Azimuth-fine adjustment	±5°
Side struts, included	2
Side struts, optional	0
Net weight	211 Kg
Radome	Complan fabric
Wind velocity Operational	30 m/s
Wind velocity Survival	55 m/s
Wind deflection	<0.3 times the -3 dB beamwidth
(with a wind velocity of 30 m/s)	Specified wind deflection applies for 115 mm dia mounting pipe only

Antenna Dimensions

(pole mount included)

Height	2145 mm
Width	2145 mm
Depth	1420 mm



Wind forces at wind velocity survival rating and with 25 mm (1") ice load

Axial force	8720 N
Side force	4320 N
Twisting Moment	3280 N?m

Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referenced to the mounting pipe (diameter 115 mm)

Electrical Characteristics

Frequency range	10-10.7 GHz
Gain, low band	43.6 dBi
Gain, mid band	43.9 dBi
Gain, top band	44.2 dBi
Return Loss	30.7 dB
VSWR	1.06
HPBW	1.0°
Front to back ratio	70 dB
Isolation	40 dB
XPD	30 dB
Electrical Compliance	Class 3

Shipping Information

Gross weight	340 Kg
Height	2400 mm
Depth	2170 mm
Width	900 mm

faini telecommunication systems	RADIATION PATTERN ENVELOPE ANTENNA TYPE HP 20-100	1248

